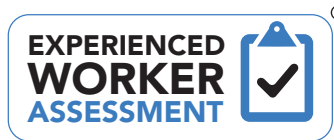


# Study Guide



To help candidates prepare for the FESS Experienced Worker Assessment (Fire Pathway), NET has compiled a series of questions which cover some of the knowledge needed for the online knowledge assessment.

The answers are provided on a separate document, so you can attempt these questions first before checking the answers

1. What distance is best practice to keep addressable loop cables segregated from power cables?

- a) 200mm
- b) 150mm
- c) 50mm
- d) 100mm

2. What is the minimum mounting height for a manual call point on a fire detection system?

- a) 1M
- b) 1.1M
- c) 1.4M
- d) 0.8M

3. What is the minimum recommended standby battery time for a fire detection system?

- a) 48hrs
- b) 8hrs
- c) 12hrs
- d) 24hrs

4. The British Standard for Fire Alarm Systems is...?

- a) BS 7671
- b) BS 5839
- c) BS 5655
- d) BS 5266

5. What is the overall resistance value of two 2.2 K $\Omega$  resistors connected in parallel?

- a) 1.1 K $\Omega$
- b) 4.4  $\Omega$
- c) 1.2 K $\Omega$
- d) 4.4 K $\Omega$

6. Where enclosures are rated for weather resistance, what does the second digit of the rating refer to?

- a) Resistance to ingress of solids
- b) Resistance to mechanical damage
- c) Resistance to impact
- d) Resistance to ingress of fluids

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7. What is the minimum distance a fire detector can be mounted from a wall?

a) 500mm

b) 200mm

c) 600mm

d) 400mm

8. What is the minimum a sensing element of a heat detector should be, below the ceiling?

a) 20mm

b) 15mm

c) 25mm

d) 30mm

9. What is the maximum recommended height of a beam detector in a P1 fire system?

a) 40M

b) 25M

c) 60M

d) 35M

10. What is the minimum level of sound required where people are sleeping to alert them in the event of alarm?

a) 65dB

b) 75dB

c) 80dB

d) 70dB

11. What is SCI when associated with fire alarm components?

a) Sensor Combined Internal

b) System Control Isolator

c) Smoke Circuit Indicator

d) Short Circuit Isolator

12. What is the effective radius coverage of a smoke detection device?

a) 7.5M

b) 6.5M

c) 5.5M

d) 8.5M

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13. What is the maximum permissible distance to the nearest manual call point of a fire alarm system?

- a) 25M
- b) 40M
- c) 45M
- d) 30M

14. What is the approximate total value of resistance of the following resistors connected in parallel:  $200\Omega$ ,  $470\Omega$  &  $220\Omega$ ?

- a)  $890\Omega$
- b)  $85\Omega$
- c)  $920\Omega$
- d)  $90\Omega$

15. Which guidance note is applicable to electrical test equipment for use on low voltage electrical systems?

- a) GN4
- b) HSE G6
- c) BS7671
- d) GS38

16. In metres what is the ideal angle for a ladder to be positioned against a wall?

- a) 1 metre out from the wall for every 3 metres up the wall
- b) 2 metres out from the wall for every 5 metres up the wall
- c) 1 metre out from the wall to every 4 metres up the wall
- d) 2 metres out from the wall for every 7 metres up the wall

17. What colour visual alarm devices may be used on a Fire Detection & Alarm system?

- a) Red or White
- b) Red only
- c) Orange only
- d) Green & White

18. What is meant by the term quiescent load?

- a) Total load of the system under test
- b) Power requirement of a piece of equipment which is idle
- c) Power requirement of the system under alarm conditions
- d) Maximum load that can be introduced to the system

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19. What is the minimum timescale a fire alarm system should be inspected by a competent person?

a) Every 12 months

b) Every 6 months

c) Every 18 months

d) Every month

20. How regular should fixings be if clipping a cable vertically?

a) 100mm

b) 300mm

c) 200mm

d) 400mm